# APPENDIX (V)

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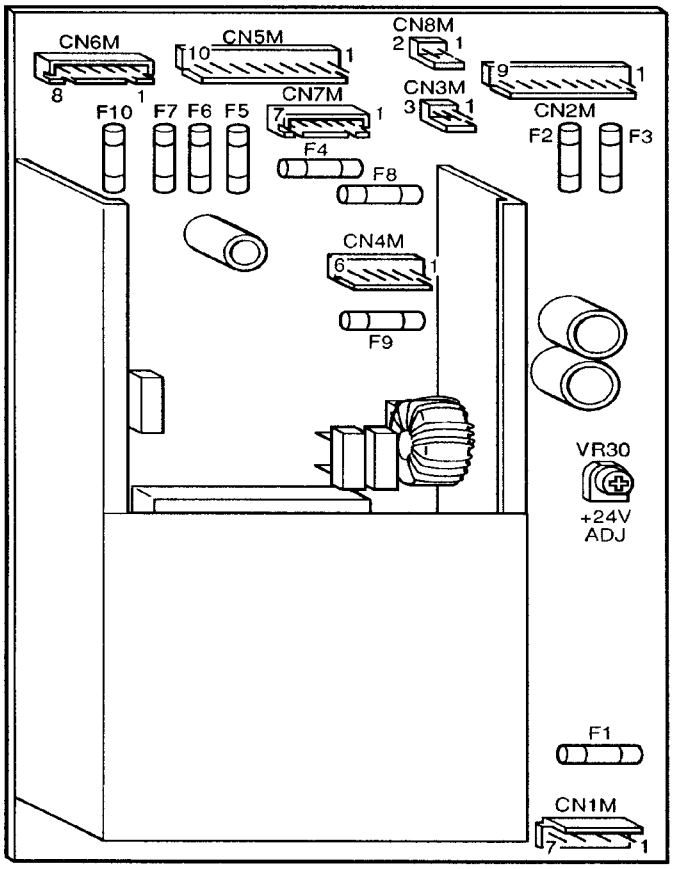
## 14.Power Supply PCB

### FUSE REPLACEMENT

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSE(S).

| Power Supply Model | 120V Type | | 220-240V Type | |
|---|---|---|---|---|
| | 019-51006-A<br>019-51014-A | 019-51022-A | 019-51007-A | 019-51023-A |
| F1 | 10A 125V | 10A 125V | T 5A 250V | T 5A 250V |
| F2 | 8A 125V | 8A 125V | T 6.3A 250V | T 6.3A 250V |
| F3 | 1A 125V | 3.15A 125V | T 1A 250V | T3.15A 250V |
| F4 | 3.15A 125V | 3.15A 125V | T3.15A 250V | T3.15A 250V |
| F5 | 3.15A 125V | 3.15A 125V | T3.15A 250V | T3.15A 250V |
| F6 | 3.15A 125V | 3.15A 125V | T3.15A 250V | T3.15A 250V |
| F7 | 3.15A 125V | 3.15A 125V | T3.15A 250V | T3.15A 250V |
| F8 | 1A 125V | None | T 1A 250V | None |
| F9 | 3.15A 125V | None | T3.15A 250V | None |
| F10 | 3.15A 125V | None | T3.15A 250V | None |
| F201 | None | 3.15A 125V | None | 3.15A 125V |
| F202 | None | 3.15A 125V | None | 3.15A 125V |
| F301 | None | 3.15A 125V | None | 3.15A 125V |

Power Supply PCB(H100/200)




**CN**

CN1 : From Main power switch
CN2 : To Motor Control PCB2
CN3 : To Suction fan
CN4 : To TPH Power PCB
CN5 : To System PCB2
CN6 : To Image Processing PCB
CN7 : To LCD or LED Control PCB
CN8 : To Power Supply fan

**VR**

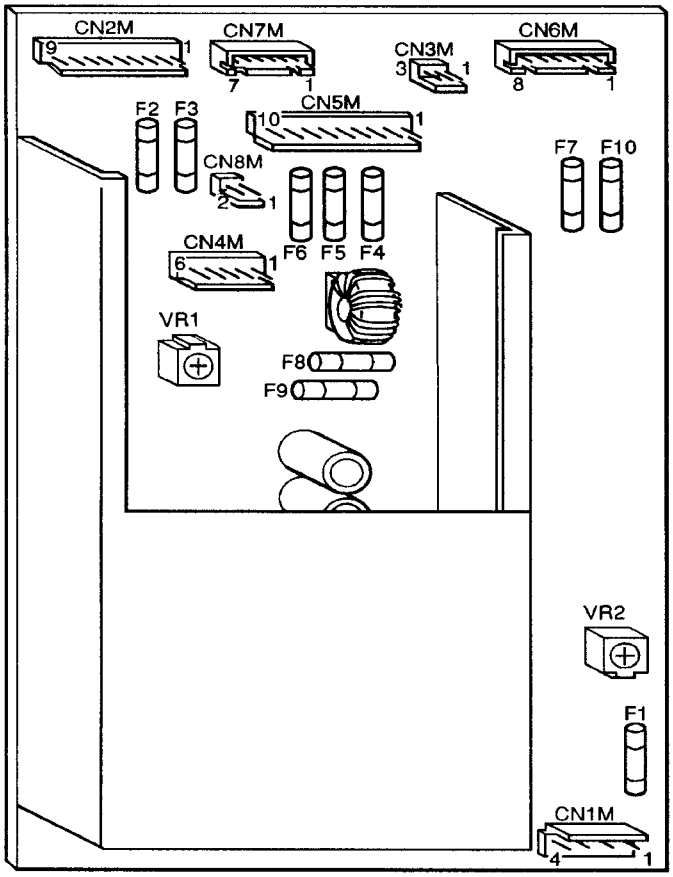
VR30: For adjustment of +24V output.

**FUSE**

| | 120V Type | 220-240V Type | Voltage/Pin number | Area |
|---|---|---|---|---|
| F1 | 10A 125V | T 5A 250V | Main Fuse | AC Input Voltage |
| F2 | 8A 125V | T 6.3A 250V | +24V(CN2M,Pins 3 & 4) | Motor Control PCB2 |
| F3 | 1A 125V | T 1A 250V | +24V(CN2M,Pin1) | Motor Control PCB2 |
| F4 | 3.15A 125V | T3.15A 250V | +24VA(CN5M,Pin7) | System PCB2 A-System |
| F5 | 3.15A 125V | T3.15A 250V | +24VB(CN5M,Pin8) | System PCB2 B-System |
| F6 | 3.15A 125V | T3.15A 250V | +24VC(CN5M,Pin9) | System PCB2 C-System |
| F7 | 3.15A 125V | T3.15A 250V | +24VD(CN6M,Pin5) | Image Processing PCB |
| F8 | 1A 125V | T 1A 250V | +24V(CN3M,CN8M) | Suction fan motor,Power Supply fan motor |
| F9 | 3.15A 125V | T3.15A 250V | +5V(CN2M,Pin8) | Motor Control PCB2 |
| | | | (CN5M,Pin1) | System PCB2 |
| | | | (CN6M,Pin7) | Image Processing PCB |
| | | | (CN7M,Pin 1 & 2) | LCD Control PCB or LED Control PCB |
| | | | +12V(CN5M,Pin3) | System PCB2 |
| | | | (CN6M,Pin8) | Image Processing PCB |
| | | | (CN7M,Pin5) | LCD Control PCB or LED Control PCB |
| | | | +15V(CN6M,Pin3) | Image Processing PCB |
| F10 | 3.15A 125V | T3.15A 250V | -12V(CN6M,Pin1) | Image Processing PCB |
| | | | (CN7M,Pin6) | LCD Control PCB or LED Control PCB |

Power Supply PCB(S100)

# Model not used in UL System




**CN**

CN1 : From Main power switch
CN2 : To Motor Control PCB2
CN3 : To Suction fan
CN4 : To TPH Power PCB
CN5 : To System PCB2
CN6 : To Image Processing PCB
CN7 : To LCD or LED Control PCB
CN8 : To Power Supply fan

**VR**

VR1: For adjustment of +5V output

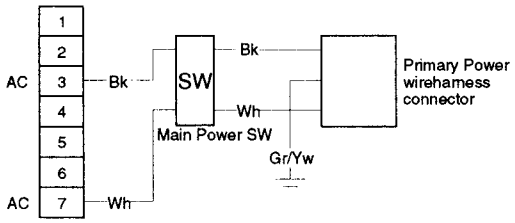
VR2: For adjustment of +24V output

**FUSE**

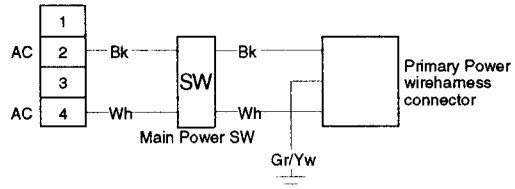
| | 120V Type | Voltage/Pin number | Area |
|---|---|---|---|
| F1 | 10A 125V | Main Fuse | AC Input Voltage |
| F2 | 8A 125V | +24V(CN2M,Pins 3 & 4) | Motor Control PCB2 |
| F3 | 1A 125V | +24V(CN2M,Pin1) | Motor Control PCB2 |
| F4 | 3.15A 125V | +24VA(CN5M,Pin7) | System PCB2 A-System |
| F5 | 3.15A 125V | +24VB(CN5M,Pin8) | System PCB2 B-System |
| F6 | 3.15A 125V | +24VC(CN5M,Pin9) | System PCB2 C-System |
| F7 | 3.15A 125V | +24VD(CN6M,Pin5) | Image Processing PCB |
| F8 | 1A 125V | +24V(CN3M,CN8M) | Suction fan motor,Power Supply fan motor |
| F9 | 3.15A 125V | +5V(CN2M,Pin8)<br>(CN5M,Pin1)<br>(CN6M,Pin7)<br>(CN7M,Pin 1 & 2) | Motor Control PCB2<br>System PCB2<br>Image Processing PCB<br>LCD Control PCB or LED Control PCB |
| | | +12V(CN5M,Pin3)<br>(CN6M,Pin8)<br>(CN7M,Pin5) | System PCB2<br>Image Processing PCB<br>LCD Control PCB or LED Control PCB |
| F10 | 3.15A 125V | -12V(CN6M,Pin1)<br>(CN7M,Pin6) | Image Processing PCB<br>LCD Control PCB or LED Control PCB |

## Power Supply PCB

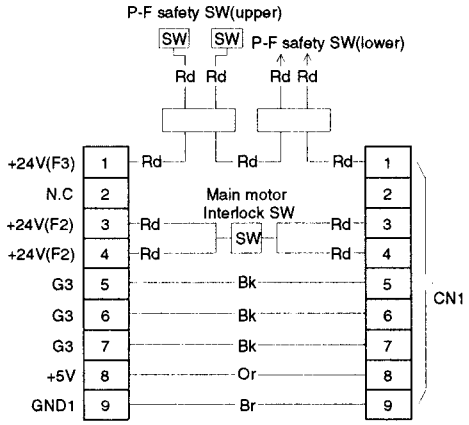
### CN1M 7PINS(H100/200)



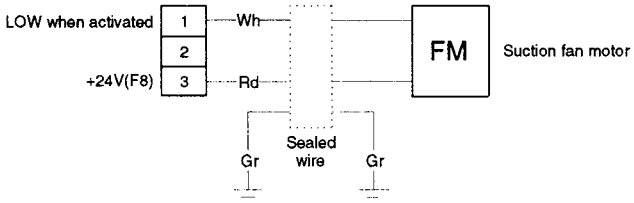

### CN1M 4PINS(S100)



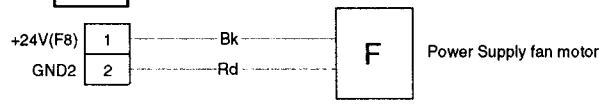

### CN2M 9PINS



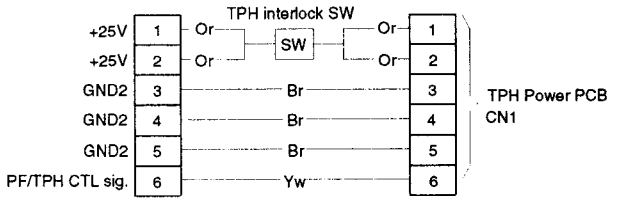

### CN3M 3PINS



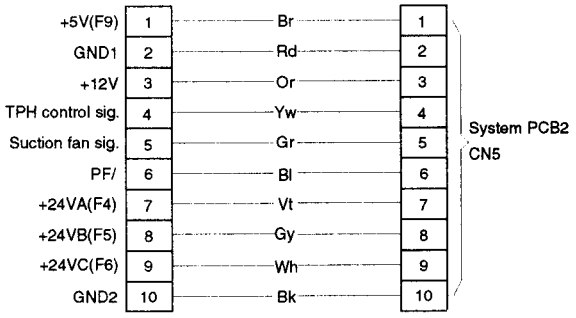

### CN8M 2PINS



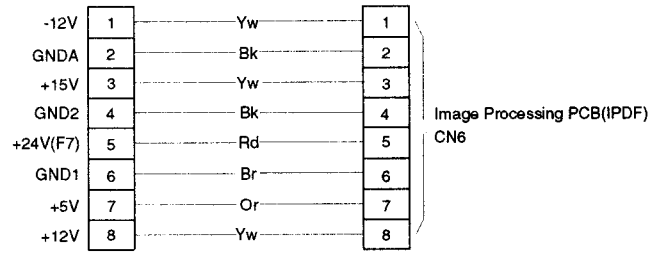

### CN4M 6PINS



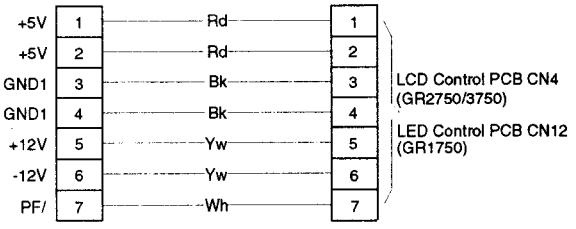

### CN5M 10PINS


+5V(F9) 1 Br 1
GND1 2 Rd 2
+12V 3 Or 3
TPH control sig. 4 Yw 4
Suction fan sig. 5 Gr 5
PF/ 6 Bl 6
+24VA(F4) 7 Vt 7
+24VB(F5) 8 Gy 8
+24VC(F6) 9 Wh 9
GND2 10 Bk 10
System PCB2 CN5

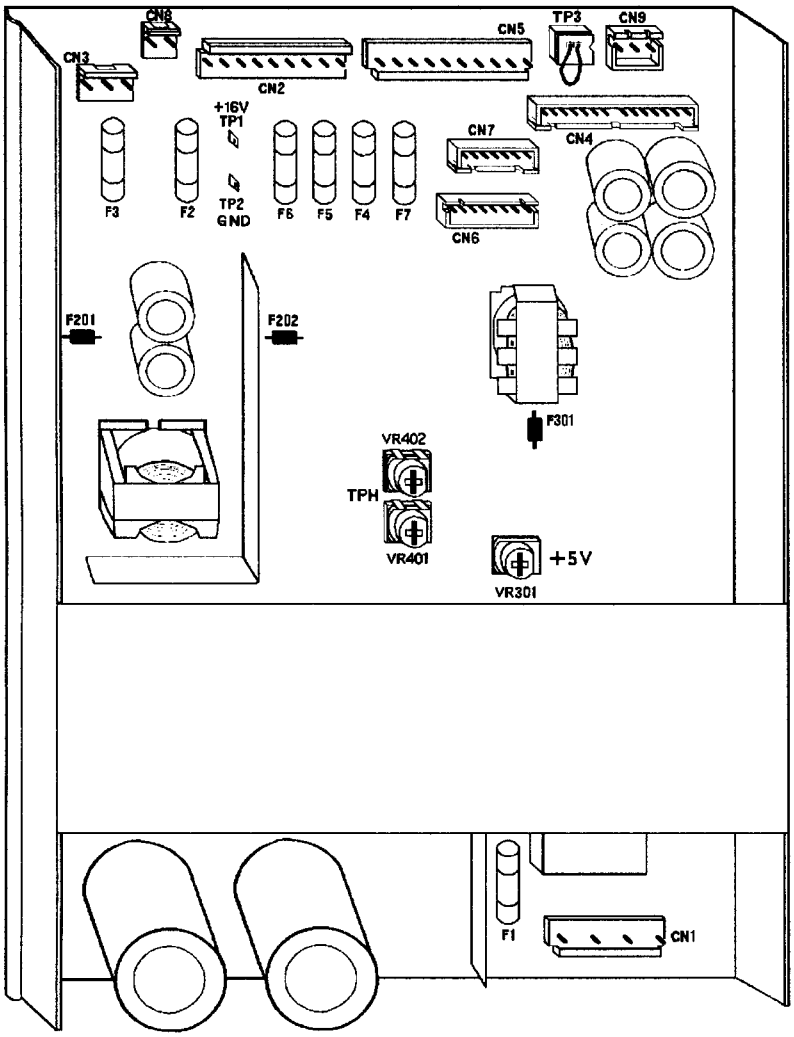
### CN6M 8PINS




### CN7M 7PINS



Power Supply PCB(N100/200)




**CN**

CN1 : From Main power switch
CN2 : To Motor Control PCB2
CN3 : To Suction fan
CN4 : To TPH
CN5 : To System PCB2
CN6 : To Image Processing PCB
CN7 : To LED Control PCB
CN8 : To Power Supply fan
CN9 : For adjusting TPH voltage

**VR**

VR301: For adjustment of +5V output
(Factory adjustment only)
VR401/402
: For adjustment of TPH voltage

**TP**

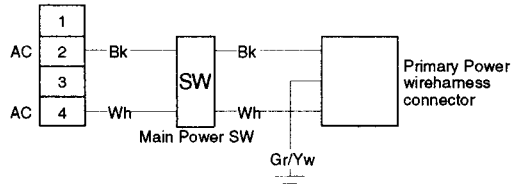
TP1: +16V
TP2: GND
TP3: TPH input voltage
(disconnect when adjusting TPHpower)

**FUSE**

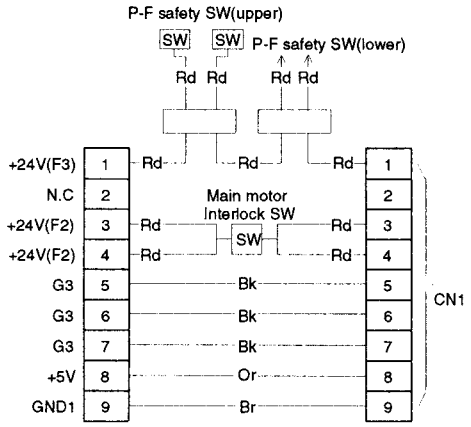
| | 120V Type | 220-240V Type | Voltage/Pin number | Area |
|---|---|---|---|---|
| F1 | 10A 125V | T 5A 250V | Main Fuse | AC Input Voltage |
| F2 | 8A 125V | T 6.3A 250V | +24V(CN2,Pins 3 & 4) | Motor Control PCB2 |
| F3 | 3.15A 125V | T3.15A 250V | +24V(CN2,Pin1)<br>+24V(CN3,CN8) | Motor Control PCB2<br>Suction fan motor,Power Supply fan motor |
| F4 | 3.15A 125V | T3.15A 250V | +24VA(CN5,Pin7) | System PCB2 A-System |
| F5 | 3.15A 125V | T3.15A 250V | +24VB(CN5,Pin8) | System PCB2 B-System |
| F6 | 3.15A 125V | T3.15A 250V | +24VC(CN5,Pin9) | System PCB2 C-System |
| F7 | 3.15A 125V | T3.15A 250V | +24VD(CN6,Pin5) | Image Processing PCB2 |
| F201 | 3.15A 125V | T3.15A 125V | +12V(CN5,Pin3)<br>(CN6,Pin8)<br>(CN7,Pin5) | System PCB2<br>Image Processing PCB2<br>LED Control PCB |
| F202 | 3.15A 125V | T3.15A 125V | -12V(CN6,Pin1)<br>(CN7,Pin6) | Image Processing PCB2<br>LED Control PCB |
| F301 | 3.15A 125V | T3.15A 125V | +5V(CN2,Pin8)<br>(CN5,Pin1)<br>(CN6,Pin7)<br>(CN7 ,Pin 1 & 2) | Motor Control PCB2<br>System PCB2<br>Image Processing PCB2<br>LED Control PCB |

## Power Supply PCB(N)

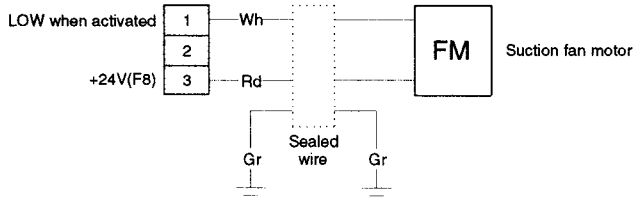
### CN1 4PINS(N)



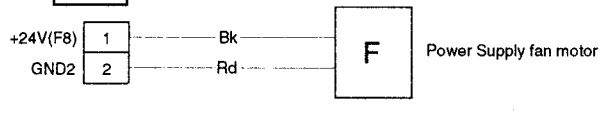

### CN2 9PINS


P-F safety SW(upper)
SW SW P-F safety SW(lower)
Rd Rd Rd Rd
+24V(F3) 1 Rd Rd Rd 1
N.C 2 2
Main motor Interlock SW
+24V(F2) 3 Rd SW Rd 3
+24V(F2) 4 Rd Rd 4
G3 5 Bk 5
G3 6 Bk 6
G3 7 Bk 7
+5V 8 Or 8
GND1 9 Br 9
CN1

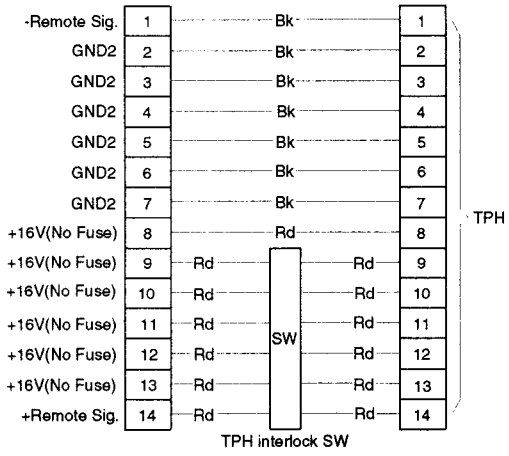
### CN3 3PINS



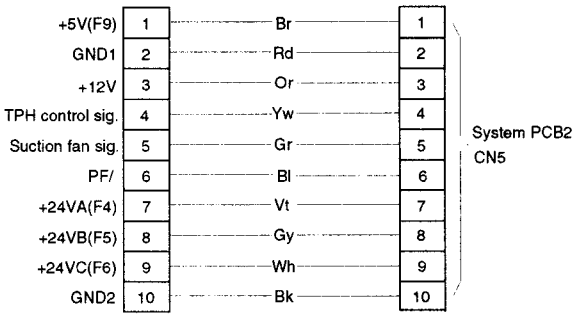

### CN8 2PINS



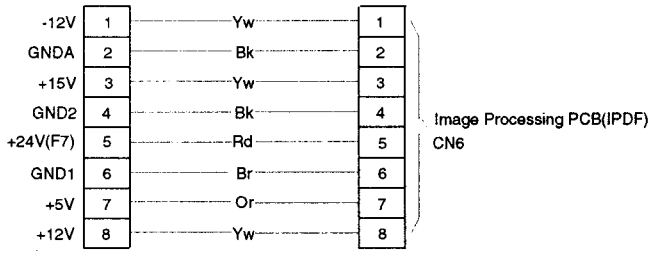

### CN4 14PINS


-Remote Sig. 1 Bk 1
GND2 2 Bk 2
GND2 3 Bk 3
GND2 4 Bk 4
GND2 5 Bk 5
GND2 6 Bk 6
GND2 7 Bk 7
+16V(No Fuse) 8 Rd 8
+16V(No Fuse) 9 Rd Rd 9
+16V(No Fuse) 10 Rd Rd 10
+16V(No Fuse) 11 Rd SW Rd 11
+16V(No Fuse) 12 Rd Rd 12
+16V(No Fuse) 13 Rd Rd 13
+Remote Sig. 14 Rd Rd 14
TPH
TPH interlock SW

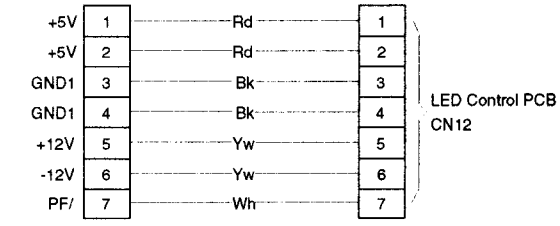
### CN5 10PINS



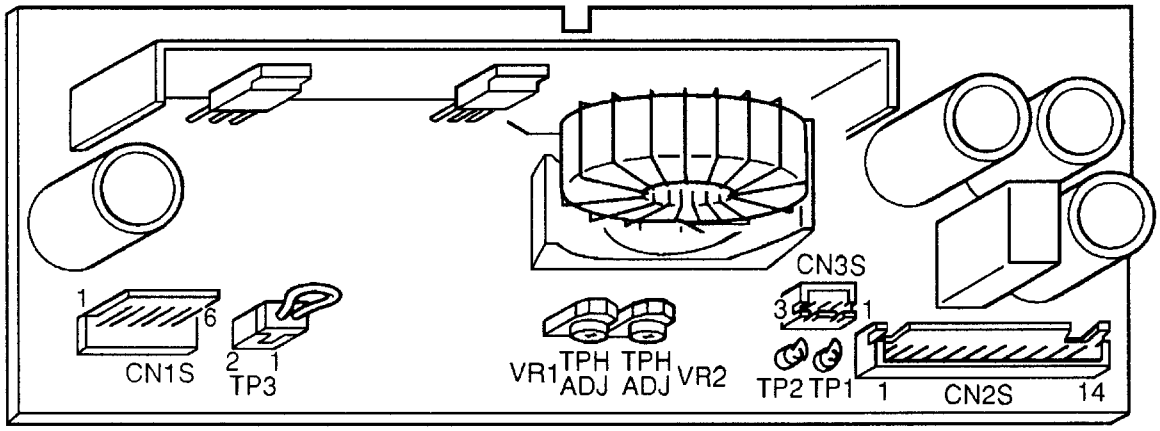

### CN6 8PINS




### CN7 7PINS

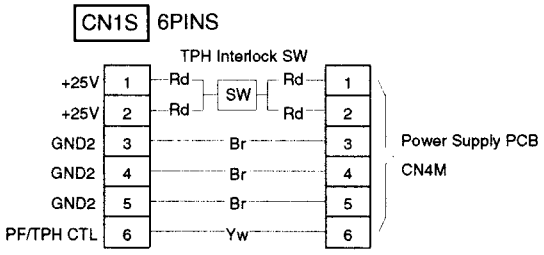
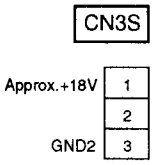
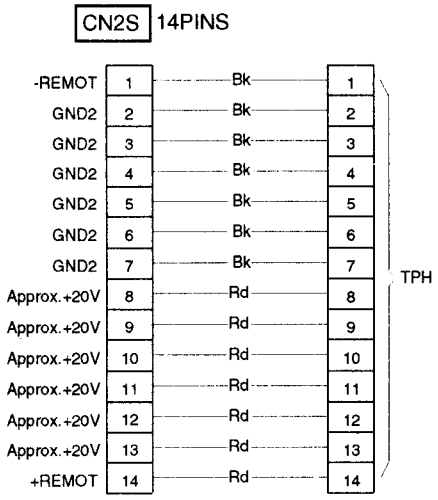


## 15. TPH Power PCB




Power supply PCB
(via Interlock switch)

Thermal print head

**TP**

TP1 : +18 ±3V
TP2 : GND
TP3 : TPH Input Voltage (disconnected when adjusting TPH power).